

WHAT IS CLAIMED IS:

1. A bicycle transmission comprising:
an axle configured and arranged to rotate about an axis;
a mount member mounted on the axle to rotate together, the mount member being configured and arranged to receive a plurality of drive members operatively coupled to a rotatable driving member with an endless drive member; and
a shifting structure configured and arranged to move the mount member in the axial direction on the axle in response to an manual operation of a rider to selectively shift the mount member in an axial direction on the axle such that the endless drive member is selectively shifted between the drive members.
2. The bicycle transmission according to claim 1, wherein
the shifting structure includes a shifter arm that is arranged to move the mount member in the axial direction in response to pivotal movement of the shifter arm, the shifter arm including an actuated section configured and arranged to be in response to a control mechanism, and an engagement section configured and arranged to move the mount member in the axial direction on the axle.
3. The bicycle transmission according to claim 2, wherein
the actuated section of the shifter arm includes a cable mounting arrangement.
4. The bicycle transmission according to claim 2, wherein
the shifting structure further includes a collar slidably mounted on the axle to slide in the axial direction on the axle, and the shifter arm being operatively coupled to move the collar in the axial direction on the axle.
5. The bicycle transmission according to claim 4, wherein
the shifting structure further includes a biasing member configured and arranged to urge the mount member in the axial direction on the axle towards one end of the axle.

6. The bicycle transmission according to claim 4, wherein the engagement section of the shifter arm includes a contact portion configured and arranged to contact the collar and move the collar in the axial direction on the axle.

7. The bicycle transmission according to claim 6, wherein the contact portion of the shifter arm is slidably engaged with the collar.

8. A bicycle transmission comprising:
an axle configured and arranged to rotate about an axis;
a plurality of drive members mounted on the axle to rotate together, with one of the drive members being operatively coupled to a rotatable driving member with an endless drive member; and
a shifting structure configured and arranged to move the drive members in the axial direction on the axle in response to an manual operation of a rider to selectively shift the drive members in an axial direction on the axle such that the endless drive member is selectively shifted between the drive members.

9. The bicycle transmission according to claim 8, wherein the shifting structure includes a shifter arm that is arranged to move the mount member in the axial direction in response to pivotal movement of the shifter arm, the shifter arm including an actuated section configured and arranged to be in response to a control mechanism, and an engagement section configured and arranged to move the mount member in the axial direction on the axle.

10. The bicycle transmission according to claim 8, further comprising a mount member configured and arranged to receive the plurality of drive members thereon.

11. The bicycle transmission according to claim 9, wherein the actuated section of the shifter arm includes a cable mounting arrangement.

12. The bicycle transmission according to claim 9, wherein the shifting structure further includes a collar slidably mounted on the axle to slide in the axial direction on the axle, and the shifter arm being operatively coupled to move the collar in the axial direction on the axle.

13. The bicycle transmission according to claim 12, wherein the shifting structure further includes a biasing member configured and arranged to urge the drive members in the axial direction on the axle towards one end of the axle.

14. The bicycle transmission according to claim 12, wherein the engagement section of the shifter arm includes a contact portion configured and arranged to contact the collar and move the collar in the axial direction on the axle.

15. The bicycle transmission according to claim 14, wherein the contact portion of the shifter arm slidably engaged with the collar.

16. A bicycle transmission system comprising:
a rotatable driving member configured and arranged to rotate about a first axis;
a rotatable driven member configured and arranged to rotate about a second axis;

an intermediate transmission operatively coupled between the rotatable driving member and the rotatable driven member, the intermediate transmission including

an axle,

a plurality of intermediate drive members configured and arranged to rotate the axle,

an endless drive member operatively coupled between the rotatable driving member and one of the intermediate drive members, and

a shifting structure configured and arranged to shift the intermediate drive members in an axial direction on the axle such that the endless drive member is selectively shifted between the intermediate drive members.

17. The bicycle transmission system according to claim 16, wherein the shifting structure includes a shifter arm configured and arranged to move the intermediate drive members in the axial direction on the axle.

18. The bicycle transmission system according to claim 17, wherein the shifting structure further includes a collar slideably mounted on the axle to slide in the axial direction on the axle, and the shifter arm being operatively coupled to move the collar in the axial direction on the axle.

19. The bicycle transmission system according to claim 18, wherein the shifting structure further includes a biasing member configured and arranged to urge the intermediate drive members in the axial direction on the axle towards one end of the axle.

20. The bicycle transmission system according to claim 16, wherein the shifting structure includes a biasing member configured and arranged to urge the intermediate drive members in the axial direction on the axle towards one end of the axle.

21. The bicycle transmission system according to claim 16, wherein the rotatable driven member is fixedly mounted on the axle to rotate together.

22. The bicycle transmission system according to claim 16, wherein the bicycle transmission is configured and arranged as a unit to be installed on a bicycle.

23. The bicycle transmission according to claim 16, wherein the intermediate transmission is configured and arranged to substantially maintain the endless drive member moves in a single plane regardless of a position of the intermediate drive members relative to the endless drive member.

24. The bicycle transmission according to claim 16, wherein the intermediate transmission includes a chain tensioner.